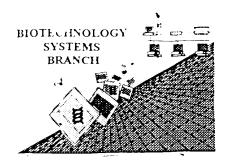
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/002,292
Source:	OIPE
Date Processed by STIC:	12/11/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 c-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 c-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary.

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: (1/3,2,0.10)
ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWAR
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220:-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences
7Skipped Sequences (OLD RULES)	Sequence(s)missing _ If intentional, please insert the following lines for each skipped sequence (2) INFOFMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown) (i)SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION SEQ ID NO X (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES" response to include the skipped sequences
8Skipped Sequences (NEW RULES)	Sequence(s) missing lf intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number 000
Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
0Invalid <213> Response	Per 1.823 of Sequence Fules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
1Use of <220>	Sequence(s) 11 - 14 missing the <220> "Feature" and associated numeric identifiers and responses Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
2PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk

TAIR: 12/11/2001

FIME: 12:04:32

OIPE

```
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                      output Set: N:\CRF3\12112001\I002292.raw
        -110> APPLICANT: Ward, Brian
                                                                      Comments of the
              Snyder, Leanne
      .1
              Li. Chuan
      G
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              Song, Keming
              Opper, Kristen
              Uder, Stephanie
              Hernan, Ron
     11 <120> TITLE OF INVENTION: RECOMBINANT DNA PROCESSES USING A dNTP MIXTURE CONTAINING
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C--> 16 <141> CURRENT FILING DATE: 2001-11-15
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     17 <151 - PRIOR FILING DATE: 2001-09-28
     19 < 160 - NUMBER OF SEQ ID NOS: 14
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/002,292

RAW SEQUENCE LISTING

DATE: 12/11/2001 TIME: 12:04:32

FAIRNE APPLIANT NE US/10/002,292

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K9 - 211 - LENNIH: ₹5 $70. \times 212 \times \text{IMPE: INA}$ 71 - 213 / ORGANISM: Lambda phage 73 $\times 2200 \times \text{FEAFURE}$: 74 - 221 - NAME, KEY: misc_feature $75 + 222 \le Lo(A, LoN; (1), ...(35)$ 76 <223> OTHER INFORMATION: Primer for Polymerase Chain Reaction (PCR) 79 - 400 - SEQUENCE 4 35 80 graculistay iggthatoga aatbagocac agogo 83 - 210 - SEQ 15 No: 5 84 + 211 | EENGIH: 23 85 < 212 : TYPE DNA 86 -213: ORGANISM Lambda phage 88 <220> FEATURE 89 < 221> NAME, EEY misc_feature 90 < 222 > LOCATION (1)..(23)91 - 223> OTHER INFORMATION: Primer for Polymerase Chain Reaction (PCR) 94 <400> SEQUENCE 5 23 95 cagtcacqae uttqtaaaac qae 98 <210> SEQ 10 NO: 6 99 <2115 LENGIH: 23 100 <212> TYPE, DNA 101 <213: ORGANISM: Lambda phage 103 <220: FEATURE 104 <221 NAME TEY: misc_feature $105 < 222 \times Locar(ON < (1)...(23)$ 106 <223: OTHER INFORMATION: Primer for Polymerase Chain Reaction (PCR) 109 .400: SEQUENCE 6 23 110 racadgamac agotatigado atig 113 <210: SEQ ID NO: 7 114 <211 LENGTH: 23 115 -2125 TYPE DNA 116 -213° ORGANISM Lambda phage 118 <220: FEATURE 119 <221: NAME_EEY__misc_feature 120 <222> LOCATION (1)..(23) 121 - 223° OTHER INFORMATION: Primer for Polymerase Chain Reaction (PCR) 124 <400 SEQUENCE 7 23 125 gardateaqt teatettteq tea 128 < 2105 SEQ ID NO: 8 129 -211> LENGTH: 22 130 ×2125 TYPE, DNA 131 <213> OFGANISM Lambda phage 133 -2205 FEATURE 134 - 2215 NAME, EEY misc_feature 135 < 222 > 100 CATION = (1)...(22)136 < 223 > OTHER INFORMATION: Primer for Polymerase Chain Reaction (PCR) 139 < 400 > SEQUENCE. 822 140 qtqtqqcaqc cqaaatqaca qa

1AIF: 12/11/2007

- 11MH:: 12:-4:32

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RAW SEQUENCE LISTING

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RAW SEQUENCE LISTING

FARENT ARRESTMENT US/10/002,292 11MH: 12:04:32

1A1E: 12/11/2001 11ME: 12:04:32

46

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VERIFICATION SUMMARY

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DAIE: 12/11/...1

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output Set: N:\CRF3\12112001\1002292.raw

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